

Logging in to Dialog

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DIALOG INFORMATION SERVICES

PLEASE LOGON:

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Welcome to DIALOG

Dialog leel 00.06.30D

Lat logoff: 28jn00 16:38:09
Logon file001 28jn00 18:43:20

0dialog

File 1:ERIC 1966-2000/Jun 17
(c) format only 2000 The Dialog Corporation
*File 1: File has been reloaded. See HELP NEWS 1.

Set	Items	Description
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? b 410

>>>'IALOG' not recognized as set or accession number
? set hi ;set hi

28jun00 18:43:27 User233835 Session D421.1
\$0.40 0.115 DialUnits File1
\$0.40 Estimated cost File1
\$0.05 TYMNET
\$0.45 Estimated cost this search
\$0.45 Estimated total session cost 0.115 DialUnits

File 410:Chronolog(R) 1981-2000 May/Jun
(c) 2000 The Dialog Corporation plc

Set	Items	Description
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?
HIGHLIGHT set on as ''
HIGHLIGHT set on as ''
? b 155, 5, 357

28jun00 18:44:19 User233835 Session D421.2
\$0.00 0.056 DialUnits File410
\$0.00 Estimated cost File410
\$0.04 TYMNET
\$0.04 Estimated cost this search
\$0.49 Estimated total session cost 0.171 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155: MEDLINE(R) 1966-2000/Aug W3
(c) format only 2000 Dialog Corporation
*File 155: MEDLINE has been reloaded. Accession numbers have changed.

File 5:Biosis Previews(R) 1969-2000/Jun W4
(c) 2000 BIOSIS
File 357:Derwent Biotechnology Abs 1982-2000/Jul B1
(c) 2000 Derwent Publ Ltd

Set Items Description
--- ---
? s modifier(w)locus

7343 MODIFIER
126004 LOCUS
S1 146 MODIFIER(W)LOCUS
? rd

...examined 50 records (50)
...examined 50 records (100)
...completed examining records
S2 90 RD (unique items)
? s s2 and outcrossing

90 S2
2039 OUTCROSSING
S3 6 S2 AND OUTCROSSING
? t s3/6/1-6

3/6/1 (Item 1 from file: 155)
07026092 92241660
The effect of linkage and population size on inbreeding depression due to
mutational load.
Feb 1992

3/6/2 (Item 2 from file: 155)
06813815 92055421
Coevolution of self-fertilization and inbreeding depression. II.
Symmetric overdominance in viability.
Aug 1991

3/6/3 (Item 3 from file: 155)
06730578 91301469
On the evolution of genetic incompatibility systems. VI. A three-locus
modifier model for the origin of gametophytic self-incompatibility.
Jun 1991

3/6/4 (Item 4 from file: 155)
05432643 89187600
On the evolution of genetic incompatibility systems. IV. Modification of
response to an existing antigen polymorphism under partial selfing.
Dec 1988

3/6/5 (Item 1 from file: 5)
07330278 BIOSIS NO.: 000090110180
INBREEDING DEPRESSION WITH HETEROZYGOTE ADVANTAGE AND ITS EFFECT ON
SELECTION FOR MODIFIERS CHANGING THE OUTCROSSING RATE
1990

3/6/6 (Item 1 from file: 357)
0251014 DBA Accession No.: 2000-05504
Detection of a genetic locus which can modify a known index phenotype by
using mutagenized and inbred mouse strains - detection of a

phenotype-associated segregating mutation, used to determine the
genetic basis of a disease 2000
? t s3/7/6

3/7/6 (Item 1 from file: 357)
DIALOG(R) File 357:Derwent Biotechnology Abs
(c) 2000 Derwent Publ Ltd. All rts. reserv.

0251014 DBA Accession No.: 2000-05504 PATENT
Detection of a genetic locus which can modify a known index phenotype by
using mutagenized and inbred mouse strains - detection of a
phenotype-associated segregating mutation, used to determine the
genetic basis of a disease

AUTHOR: Dove W F; Shedlovsky A

CORPORATE SOURCE: Madison, WI, USA.

PATENT ASSIGNEE: Wisconsin-Alumni-Res.Found. 2000

PATENT NUMBER: WO 200004186 PATENT DATE: 20000127 WPI ACCESSION NO.:
2000-171274 (2015)

PRIORITY APPLIC. NO.: US 114973 APPLIC. DATE: 19980714

NATIONAL APPLIC. NO.: WO 99US15661 APPLIC. DATE: 19990712

LANGUAGE: English

ABSTRACT: A means of identifying a segregating mutation (SM) by index
directed cluster enhanced modifier locus and molecule
identification method (ICMM), is claimed. This involves outbreeding an
inbred founder strain with an index inbred strain, and creating
backcross progeny. Progeny exhibiting the outlying phenotype is
verified for SM. Also claimed is a similar method involving crossing
the founder strain with the index strain, and progeny of that cross
carrying the dominant allele are verified for SM. The claims also cover
SM identified by outcrossing a founder isogenic inbred strain
with the index strain, a genetically altered mouse with a genome
containing a dominant heterozygous allele conferring an index
phenotype. Also covered are a non-human animal selected by these
methods, and a means of identifying SM at a genetic locus that modifies
the index phenotype in an inbred strain. This can be used to identify a
human genetic sequence corresponding to SM at a genetic locus. This is
a rapid, focused approach to obtain genes in animal models that
influence a medically relevant phenotype to identify the genetic basis
of that phenotype. (37pp)

? s s2 and outbreeding

90 S2
719 OUTBREEDING
S4 2 S2 AND OUTBREEDING
? t s4/6/1-2

4/6/1 (Item 1 from file: 155)

07026092 92241660

The effect of linkage and population size on inbreeding depression due to
mutational load.

Feb 1992

4/6/2 (Item 1 from file: 357)
0251014 DBA Accession No.: 2000-05504

Detection of a genetic locus which can modify a known index phenotype by
using mutagenized and inbred mouse strains - detection of a
phenotype-associated segregating mutation, used to determine the
genetic basis of a disease 2000

? t s4/7/1

4/7/1 (Item 1 from file: 155)

07026092 92241660

The effect of linkage and population size on inbreeding depression due to mutational load.

Charlesworth D; Morgan MT; Charlesworth B

Department of Ecology and Evolution, University of Chicago, IL 60637.

Genetical research (ENGLAND) Feb 1992, 59 (1) p49-61, ISSN 0016-6723

Journal Code: FN2

Languages: ENGLISH

Document type: JOURNAL ARTICLE

Using a stochastic model of a finite population in which there is mutation to partially recessive detrimental alleles at many loci, we study the effects of population size and linkage between the loci on the population mean fitness and inbreeding depression values. Although linkage between the selected loci decreases the amount of inbreeding depression, neither population size nor recombination rate have strong effects on these quantities, unless extremely small values are assumed. We also investigate how partial linkage between the loci that determine fitness affects the invasion of populations by alleles at a **modifier locus** that controls the selfing rate. In most of the cases studied, the direction of selection on modifiers was consistent with that found in our previous deterministic calculations. However, there was some evidence that linkage between the **modifier locus** and the selected loci makes outcrossing less likely to evolve; more losses of alleles promoting outcrossing occurred in runs with linkage than in runs with free recombination. We also studied the fate of neutral alleles introduced into populations carrying detrimental mutations. The times to loss of neutral alleles introduced at low frequency were shorter than those predicted for alleles in the absence of selected loci, taking into account the reduction of the effective population size due to inbreeding. Previous studies have been confined to **outbreeding** populations, and to alleles at frequencies close to one-half, and have found an effect in the opposite direction. It therefore appears that associations between neutral and selected loci may produce effects that differ according to the initial frequencies of the neutral alleles.

? ds

Set	Items	Description
S1	146	MODIFIER(W) LOCUS
S2	90	RD (unique items)
S3	6	S2 AND OUTCROSSING
S4	2	S2 AND OUTBREEDING

? s.s1 and mouse

146	S1
755861	MOUSE
S5	40 S1 AND MOUSE

? rd

...completed examining records

S6	24 RD (unique items)
----	----------------------

? t s6/6/1-24

6/6/1 (Item 1 from file: 155)
 10373342 20187915
 Predisposition to lung tumorigenesis.
 Mar 15 2000

6/6/2 (Item 2 from file: 155)
 10326404 20113111

Spatially restricted hypopigmentation associated with an Ednrbs-modifying locus on **mouse** chromosome 10.
Jan 2000

6/6/3 (Item 3 from file: 155)
09870480 99138694
Dystonia associated with mutation of the neuronal sodium channel Scn8a and identification of the **modifier locus** Scnml on **mouse** chromosome 3.
Mar 1999

6/6/4 (Item 4 from file: 155)
09669096 98454303
Modifier genes in humans: strategies for identification.
Jan 1998

6/6/5 (Item 5 from file: 155)
09505972 98207250
A high-resolution genetic map of the nervous locus on **mouse** chromosome 8.
Mar 15 1998

6/6/6 (Item 6 from file: 155)
09291309 98011948
Genetic analysis of a quantitative trait in a **mouse** model of polycystic kidney disease.
Oct 1997

6/6/7 (Item 7 from file: 155)
09240462 97434218
Secretory phospholipase Pla2g2a confers resistance to intestinal tumorigenesis [see comments]
Sep 1997

6/6/8 (Item 8 from file: 155)
08864382 97069809
Variants at the secretory phospholipase A2 (PLA2G2A) locus: analysis of associations with familial adenomatous polyposis and sporadic colorectal tumours.
Sep 1996

6/6/9 (Item 9 from file: 155)
08621656 96172827
Modulation of disease severity in cystic fibrosis transmembrane conductance regulator deficient mice by a secondary genetic factor [published erratum appears in Nat Genet 1996 May;13(1):129]
Mar 1996

6/6/10 (Item 10 from file: 155)
08496288 96121384
A curly-tail **modifier locus**, mct1, on **mouse** chromosome 17.
Oct 10 1995

6/6/11 (Item 11 from file: 155)
08421031 96046299

6/6/12 (Item 12 from file: 155)
08313712 95301275

Localization of a murine recessive polycystic kidney disease mutation and modifying loci that affect disease severity.
Mar 1 1995

6/6/13 (Item 13 from file: 155)
07678666 94061981

Genetic identification of Mom-1, a major modifier locus affecting Min-induced intestinal neoplasia in the mouse.
Nov 19 1993

6/6/14 (Item 14 from file: 155)
06999931 92176249

The Min (multiple intestinal neoplasia) mutation: its effect on gut epithelial cell differentiation and interaction with a modifier system.
Mar 1992

6/6/15 (Item 15 from file: 155)
06568129 91216059

Imprinting by DNA methylation: from transgenes to endogenous gene sequences.
1990

6/6/16 (Item 16 from file: 155)
05498570 89137946

Coevolution of the major histocompatibility complex and the t-complex in the mouse . II. Modification of response to sharing of histocompatibility antigens.
Jan 1989

6/6/17 (Item 17 from file: 155)
04232520 83230691

Genetic variability of purine nucleoside phosphorylase activity in the mouse: relationship to Np-1 and Np-2.
Apr 1983

6/6/18 (Item 1 from file: 5)
12047141 BIOSIS NO.: 199900327660

Genetic modifiers of polycystic kidney disease in intersubspecific KAT2J mutants.
1999

6/6/19 (Item 2 from file: 5)
11666056 BIOSIS NO.: 199800447787

A cis-acting element that directs the activity of the murine methylation modifier locus Ssml.
1998

6/6/20 (Item 3 from file: 5)
11612745 BIOSIS NO.: 199800394514

The intestinal epithelium and its neoplasms: Genetic, cellular and tissue interactions.

1998

6/6/21 (Item 4 from file: 5)
11300246 BIOSIS NO.: 199800081578
Epilepsy in mice deficient in the 65-kda isoform of glutamic acid
decarboxylase.
1997

6/6/22 (Item 5 from file: 5)
10976213 BIOSIS NO.: 199799597358
Localized gene action controlling intestinal neoplasia in mice.
1997

6/6/23 (Item 6 from file: 5)
03724251 BIOSIS NO.: 000024052324
GENETIC VARIABILITY OF PURINE NUCLEOSIDE PHOSPHORYLASE IN THE MOUSE
RELATIONSHIP TO NP-1 AND NP-2
1982

6/6/24 (Item 1 from file: 357)
0251014 DBA Accession No.: 2000-05504
Detection of a genetic locus which can modify a known index phenotype by
using mutagenized and inbred **mouse** strains - detection of a
phenotype-associated segregating mutation, used to determine the
genetic basis of a disease 2000
? t s6/7/2,4

6/7/2 (Item 2 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
(c) format only 2000 Dialog Corporation. All rts. reserv.

10326404 20113111
Spatially restricted hypopigmentation associated with an Ednrb-modifying
locus on **mouse** chromosome 10.
Rhim H; Dunn KJ; Aronzon A; Mac S; Cheng M; Lamoreux ML; Tilghman SM;
Pavan WJ
Genetic Disease Research Branch, National Human Genome Research
Institute, National Institutes of Health (NIH), Bethesda, Maryland
20892-4472 USA.
Genome research (UNITED STATES) Jan 2000, 10 (1) p17-29, ISSN
1088-9051 Journal Code: CES
Contract/Grant No.: EY10233, EY, NEI
Languages: ENGLISH
Document type: JOURNAL ARTICLE
We have used the varied expressivity of white spotting (hypopigmentation)
observed in intrasubspecific crosses of Ednrb(s) mice (Mayer
Ednrb(s)/Ednrb(s) and C3HeB/FeJ Ednrb(s)/Ednrb(s)) to analyze the effects
of modifier loci on the patterning of hypopigmentation. We have confirmed
that an Ednrb(s) modifier locus is present on **mouse**
Chromosome 10. This locus is now termed k10, using the nomenclature
established by Dunn in 1920. The k10(Mayer) allele is a recessive modifier
that accounts for almost all of the genetic variance of dorsal
hypopigmentation. Using intercross analyses we identified a second allele
of this locus or a closely linked gene termed k10(C3H). The k10(C3H) allele
is semidominant and is associated with the penetrance and expressivity of a
white forelock phenotype similar to that seen in Waardenburg syndrome.
Molecular linkage analysis was used to determine that the k10 critical
interval was flanked by D10Mit10 and D10Mit162/D10Mit122 and cosegregates
with mast cell growth factor (Mgf). Complementation crosses with a Mgf(S1)
allele (a 3-5-cM deletion) confirm the semidominant white forelock feature

of the k10(C3H) allele and the dorsal spotting feature of K10(Mayer) allele. MgF was assessed as a candidate gene for k10(Mayer) and k10(C3H) by sequence and genomic analyses. No molecular differences were observed between the Mayer and C57BL/6J alleles of MgF; however, extensive genomic differences were observed between the C3HeB/FeJ and C57BL/6J alleles. This suggests that alteration of MgF expression in C3H mice may account for the k10(C3H) action on white forelock hypopigmentation. Crosses of Ednrb(s) with Kit(WJ-2) (the receptor for MGF)-deficient mice confirmed the hypothesis that synergistic interaction between the Endothelin and MGF signaling pathways regulates proper neural crest-derived melanocyte development in vivo.

6/7/4 (Item 4 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2000 Dialog Corporation. All rts. reserv.

09669096 98454303
Modifier genes in humans: strategies for identification.
Houlston RS; Tomlinson IP
Institute of Cancer Research, Sutton, Surrey, UK.
European journal of human genetics (ENGLAND) Jan 1998, 6 (1) p80-8,
ISSN 1018-4813 Journal Code: B4K
Languages: ENGLISH
Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL
A number of genetic disorders exhibit inter- and intra-familial variability. Understanding the factors that control the expression of disease genes should provide insight into the fundamental disease processes and will have implications for counselling patients. Different mechanisms can account for this variability, including environmental factors, genotype-phenotype correlations and imprinting. There is also evidence that, in a number of genetic diseases, gene expression is under the control of modifier loci. In cases where the biological basis of the genetic disease is understood, any genes involved in the pathogenic process represent candidate modifier genes which can easily be evaluated. Alternatively, modifiers can be identified through approaches such as mouse models. Since modifier genes will generally be common and because of confounding environmental influences, linkage analyses in humans will generally be based upon affected or discordant sib pairs. Discordant sib pairs represent an attractive option for linkage studies, because recurrence rates are high and the reduced survival characteristics associated with severe phenotypes will make the likelihood of obtaining clinical material from two living cases difficult. Furthermore, the use of discordant siblings will select for those siblings which possess sufficient dissimilarity at the modifier locus to overcome any shared environmental influence. (42 Refs.)

? ds

Set	Items	Description
S1	146	MODIFIER(W) LOCUS
S2	90	RD (unique items)
S3	6	S2 AND OUTCROSSING
S4	2	S2 AND OUTBREEDING
S5	40	S1 AND MOUSE
S6	24	RD (unique items)

? s, s2 and founder

	90	S2
	5219	FOUNDER
S7	1	S2 AND FOUNDER

? t s7/6

7/6/1 (Item 1 from file: 357)

- 0251014 DBA Accession No.: 2000-05504
 Detection of a genetic locus which can modify a known index phenotype by
 using mutagenized and inbred mouse strains - detection of a
 phenotype-associated segregating mutation, used to determine the
 genetic basis of a disease 2000
 ? s s2 and F(w)1

```

      90  S2
  256031  F
  4751990  1
  17200  F(W)1
  S8      0  S2 AND F(W)1
? s s2 and progeny
  
```

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      90  S2
  36101  PROGENY
  S9      4  S2 AND PROGENY
? t s9/6/1-4
  
```

9/6/1 (Item 1 from file: 155)
 09291309 98011948
 Genetic analysis of a quantitative trait in a mouse model of polycystic
 kidney disease.
 Oct 1997

9/6/2 (Item 2 from file: 155)
 08621656 96172827
 Modulation of disease severity in cystic fibrosis transmembrane
 conductance regulator deficient mice by a secondary genetic factor
 [published erratum appears in Nat Genet 1996 May;13(1):129]
 Mar 1996

9/6/3 (Item 3 from file: 155)
 08313712 95301275
 Localization of a murine recessive polycystic kidney disease mutation and
 modifying loci that affect disease severity.
 Mar 1 1995

9/6/4 (Item 1 from file: 357)
 0251014 DBA Accession No.: 2000-05504
 Detection of a genetic locus which can modify a known index phenotype by
 using mutagenized and inbred mouse strains - detection of a
 phenotype-associated segregating mutation, used to determine the
 genetic basis of a disease 2000
 ? t s9/7/1-3

9/7/1 (Item 1 from file: 155)
 DIALOG(R)File 155: MEDLINE(R)
 (c) format only 2000 Dialog Corporation. All rts. reserv.

 09291309 98011948
 Genetic analysis of a quantitative trait in a mouse model of polycystic
 kidney disease.
 Iakoubova OA; Dushkin H; Beier DR
 Genetics Division, Brigham and Women's Hospital, Harvard Medical School,
 Boston, Massachusetts 02115, USA.
 American journal of respiratory and critical care medicine (UNITED STATES
) Oct 1997, 156 (4 Pt 2) pS72-7, ISSN 1073-449X Journal Code: BZS
 Contract/Grant No.: R01DK45639, DK, NIDDK
 Languages: ENGLISH

Document type: JOURNAL ARTICLE

The development of a variety of powerful tools for genome analysis has facilitated the ability to genetically map loci which contribute to the variation of a quantitative trait. However, the fact that these traits are often determined as a result of complex genetic interactions has made their analysis considerably more difficult than the molecular characterization of qualitative traits that are monogenic in origin. We have described the use of a novel method of chromosomal exclusion to map the recessive mutation juvenile cystic kidney (jck) to mouse chromosome 11 using an intercross between (C57BL/6J x DBA/2J) F1 jck/+ mice. The severity of polycystic kidney disease (PKD) in the intercross progeny, which could be quantitated as a function of kidney size, was significantly more variable than that found in the parental C57BL/6J strain, suggesting that a modifier locus or loci introduced from DBA/2J affects expression of jck. Two regions (one from DBA/2J on chromosome 10 and a second from C57BL/6J on chromosome 1) were found to be associated with inheritance of a more severe PKD phenotype. The finding of a highly significant association of inheritance of a C57BL/6J-related locus with disease severity was unexpected since the PKD phenotype in this inbred background is mild. This result suggests that inheritance in the affected F2 mice of loci from the two different parental backgrounds results in the more severe phenotype, presumably as a consequence of a direct or indirect interaction between their protein products. This type of effect, which is an example of genetic epistasis, will make the molecular characterization of loci that contribute to complex traits markedly more difficult than the analysis of monogenic disorders.

9/7/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08621656 96172827

Modulation of disease severity in cystic fibrosis transmembrane conductance regulator deficient mice by a secondary genetic factor [published erratum appears in Nat Genet 1996 May;13(1):129]

Rozmahel R; Wilschanski M; Matin A; Plyte S; Oliver M; Auerbach W; Moore A; Forstner J; Durie P; Nadeau J; Bear C; Tsui LC

Department of Molecular Genetics, The University of Toronto, Ontario, Canada.

Nature genetics (UNITED STATES) Mar 1996, 12 (3) p280-7, ISSN 1061-4036 Journal Code: BRO

Languages: ENGLISH

Document type: JOURNAL ARTICLE

Mice that have been made deficient for the cystic fibrosis transmembrane conductance regulator (Cftr) usually die of intestinal obstruction. We have created Cftr-deficient mice and demonstrate prolonged survival among backcross and intercross progeny with different inbred strains, suggesting that modulation of disease severity is genetically determined. A genome scan showed that the major modifier locus maps near the centromere of mouse chromosome 7. Electrophysiological studies on mice with prolonged survival show that the partial rectification of Cl- and Na+ ion transport abnormalities can be explained in part by up-regulation of a calcium-activated Cl- conductance. Identification of modifier genes in our Cftr(m1HSC)/Cftr(m1HSC) mice should provide important insight into the heterogeneous disease presentation observed among CF patients.

QH431.N363

9/7/3 (Item 3 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08313712 95301275

Localization of a murine recessive polycystic kidney disease mutation and modifying loci that affect disease severity.

Iakoubova OA; Dushkin H; Beier DR
Genetics Division, Brigham and Women's Hospital, Harvard Medical School,
Boston, Massachusetts 02115, USA.

Genomics (UNITED STATES) Mar 1 1995, 26 (1) p107-14, ISSN 0888-7543
Journal Code: GEN

Contract/Grant No.: RO1DK4563902, DK, NIDDK

Languages: ENGLISH

Document type: JOURNAL ARTICLE

We have used a novel method of chromosomal exclusion to map the recessive mutation juvenile cystic kidney (jck) to mouse chromosome 11 using an intercross between (C57BL/6J x DBA/2J) F1jck/ + mice. The severity of polycystic kidney disease (PKD) in the intercross progeny was significantly more variable than that found in the parental C57BL/6J strain, suggesting that a modifier locus or loci introduced from DBA/2J affects expression of jck. Two regions--one from DBA/2J on chromosome 10 and a second from C57BL/6J on chromosome 1--are associated with inheritance of a more severe PKD phenotype. The finding of a highly significant association of inheritance of a C57BL/6J-related locus with disease severity, with a maximal QTL analysis lod score of 16.8, was unexpected; this result suggests that inheritance of both this locus and at least one DBA/2J locus results in the more severe phenotype, presumably as a consequence of a direct or indirect interaction between their protein products.

? logoff

28jun00 19:01:15 User233835 Session D421.3
\$3.15 0.984 DialUnits File155
\$0.00 25 Type(s) in Format 6
\$1.20 6 Type(s) in Format 7
\$1.20 31 Types
\$4.35 Estimated cost File155
\$4.59 0.820 DialUnits File5
\$0.00 7 Type(s) in Format 6
\$0.00 7 Types
\$4.59 Estimated cost File5
\$2.49 0.210 DialUnits File357
\$0.00 5 Type(s) in Format 6
\$2.20 1 Type(s) in Format 7
\$2.20 6 Types
\$4.69 Estimated cost File357
OneSearch, 3 files, 2.014 DialUnits FileOS
\$0.85 TYMNET
\$14.48 Estimated cost this search
\$14.97 Estimated total session cost 2.185 DialUnits

Logoff: level 00.06.30 D 19:01:15

trans

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	i	im

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g	
me	

A

QH426.646

QX 4/31/84

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1997:42780 BIOSIS
DN PREV199799334768
TI Moml is a semi-dominant modifier of intestinal adenoma size and
AU multiplicity in Min/+ mice.
S.: Gould, Karen A.; Dietrich, William F.; Borenstein, Natalie; Lander, Eric
CS (1) McArdle Lab. Cancer Res., 1400 University Ave., Madison, WI 53706 USA
SO Genetics, (1996) Vol. 144, No. 4, pp. 1769-1776.
ISSN: 0016-6731.
DT Article
LA English
AB The intestinal tumor multiplicity in mice heterozygous for Apc-Min is
strongly modulated by genetic background. On the sensitive C57BL/6J (B6)
background, mice develop large numbers of intestinal adenomas. The AKR/J
(AKR) strain carries alleles that correlate with a strong reduction in
tumor multiplicity. To study the effect of one of these modifiers, Moml,
we have generated a mouse line in which the AKR allele of Moml is carried
on the sensitive B6 genetic background. This strain was produced by using
a marker-assisted selection method to eliminate unlinked AKR alleles more
rapidly. The application and efficiency of this method are discussed. We
used this strain to determine that Moml affects both tumor multiplicity
and tumor size in a semi-dominant fashion.

QX 5/3/84, 10:00

All 75:631-639, 1993

Memorial Genome 7(1) 55-58, 1993
7(5) 331-334, 1994
9(4) 244-244, 1994] QL738.5
m359

All. Molecular Genetics 240(2) 302-306, 1993

All. Molecular Biochemistry & Physiology 53(2) 97-115, 1995

All. Teratogenesis Carcinogenesis & Mutagenesis 14(6) 291-302, 1994

Amer. J. Respiratory & Critical Care Med

156(4P1) 572-577